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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR     | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|--------------------------|---------------------|------------------|
| 09/811,227      | 03/16/2001  | Geoffrey Howard Blackham |                     | 7870             |

7590 07/16/2003  
Iandiorio & Teska  
260 Bear Hill Road  
Waltham, MA 02451-1018

EXAMINER

WALLACE, SCOTT A

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2671

DATE MAILED: 07/16/2003

8

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/811,227

Applicant(s)

BLACKHAM ET AL

Examiner

Scott Wallace

Art Unit

2671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 22 April 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 6-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 6-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**Art Unit: 2671**

***Response to Arguments***

1. Applicant's arguments with respect to claims 1 have been considered but are moot in view of the new ground(s) of rejection.

***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the high and low resolution images and a changing to a common format must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 6-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bogart et al., U.S. Patent No. 5,239,625.
5. As per claim 6, Bogart et al discloses a method of operating image display apparatus, which method comprises combining in a common pixel format a low resolution image component from a first source (column 4 lines 15-42), and a high resolution image component from a second

**Art Unit: 2671**

source which is different from the first source (column 4 lines 15-42), and in which the common pixel format is the pixel format of a high resolution image which forms the second source and from which the high resolution image component is obtained (column 4 lines 15-42), whereby the high resolution image component is able to be positioned anywhere in a display obtained from the image display apparatus (column 4 lines 15-42). However, Bogart et al does not specifically disclose the low resolution is a wide field of view and the high resolution is a narrow field of view. It would have been obvious to one of ordinary skill in the art because low resolution involves less pixels but a bigger field of view to see it and high resolution involves more pixels and can be a small picture (narrow field of view).

6. As per claim 7, it is well known in the art that to go from a low resolution image to a high resolution image, that resampling to increase pixel count is well known.

7. As per claim 8, it is well known in the art that to go from a low resolution image to a high resolution image, that interpolating to increase pixel count is well known.

8. As per claim 9, Bogart et al discloses in which the composite imagery is stored in a frame buffer (fig 16 # 94).

9. As per claim 11, Bogart et al discloses in which the low resolution image component is of a background scene (column 2 lines 15-67 and column 4 lines 10-420, and which a the high resolution image component is of a target (column 4 lines 10-25, graphic objects).

10. Claims 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bogart et al in view of Lauer et al., U.S. Patent No. 5,523,769.

11. As per claim 10, Bogart et al does not specifically disclose in which the frame buffer is segmented to drive a matrix of display devices. However, this is disclosed in Lauer et al in fig. 1a

**Art Unit: 2671**

and 2a and column 5 lines 3-15 and column 6 lines 51-61. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a frame buffer to drive a matrix of displays as in Lauer with the system of Bogart et al because this would allow having higher resolution displays (column 1 lines 16-26).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Scott Wallace** whose telephone number is **703-605-5163**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mark Zimmerman**, can be reached at 703-305-9798.

**Any response to this action should be mailed to:**

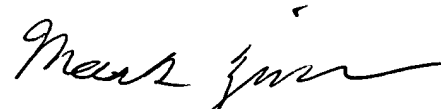
Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

  
**MARK ZIMMERMAN**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**

**Application/Control Number: 09/811,227**

**Art Unit: 2671**

**Page 5**